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# NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 1228/2009 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

PAGE, BRENT T

ART UNIT PAPER NUMBER

1618

DATE MAILED: 12/28/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705.195	11/10/2003	Volker Buttcher	0147-0253P	5787

TITLE OF INVENTION: METHOD FOR PRODUCING ALPHA-1, 6-BRANCHED ALPH-1, 4-GLUCANS FROM SUCROSE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/29/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	or transmitting the 1880 ig the Patent, advance of nerwise in Block 1, by (	rders and notification of r a) specifying a new corres	naintenance fees wi pondence address;	ill be r and/or	nailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOE	RNEY DOCKET NO.	CONFIRMATION NO.
10/705,195	11/10/2003		Volker Buttcher			0147-0253P	5787
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/29/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
PAGE, B		1638	435-069100				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address for Change of Correspondence Address form PT0/SB/122) attached.  The Address Form PT0/SB/122 attached.  The Address' indication for "Fee Address' Indication form PT0/SB/127 kee 0.3-02 or more recent) attached. Use of a Customer Number is required.  ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			or agents OR, alternation (2) the name of a single registered attorney or a 2 registered patent attollisted, no name will be	names of up to 3 registered patent attorneys  1. sto OR, alternatively, sto OR, alternatively, same of a single firm (having as a member a  2. red attorney or again) and the anames of up to terred patent attorneys or again. If no name is  3. on samin will be printed.			
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- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than t k Office.	he applicant; a regis	tered a	ttorney or agent; or th	ne assignee or other party in
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2292 75	90 12/28/2009	EXAMINER		
BIRCH STEWART KOLASCH & BIRCH			PAGE, BRENT T	
PO BOX 747			ART UNIT	PAPER NUMBER
FALLS CHURCH,	, VA 22040-0747	1638		

DATE MAILED: 12/28/2009

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 456 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 456 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)
10/705,195	BUTTCHER ET AL.
Examiner	Art Unit
RRENT PAGE	1638

-- The MALING DATE of this communication appears on the cover sheat with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

  1. ☑ This communication is responsive to Claim amendments filed 09/03/2009.
- The allowed claim(s) is/are 1-5,10-14 and 17-54.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    - 1. T Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) I hereto or 2) to Paper No./Mail Date \_\_\_\_
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date <u>9/2009, 10/2009</u>

  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. 

  Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_\_\_.

Application/Control Number: 10/705,195

Art Unit: 1638

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In the Claims:

Claims 6-9, 15-16 and 55 were cancelled without prejudice.

Claims 1, 23, 32, 34 were amended as follows.

Claim 1 (currently amended) An isolated nucleic acid molecule encoding a branching enzyme [from a bacterium of the genus Neisseria]selected from the group consisting of

- (a) a nucleic acid molecule encoding a protein which comprises the amino acid sequence depicted in SEQ ID NO:2;
- (b) a nucleic acid molecule comprising the coding region depicted in SEQ ID NO:1;
- (c) a nucleic acid molecule encoding a protein which comprises the amino acid sequence encoded by the insert in plasmid DSM 12425;
- (d) a nucleic acid molecule comprising the coding region which is contained in the insert of the plasmid DSM 12425;

And

(e) a nucleic acid molecule having more than 95% identity with SEQ ID NO:1.

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Claim 23 (currently amended) A method for producing a branching enzyme from a bacterium of the genus Neisseria, wherein a host cell which is genetically modified with a vector containing a nucleic acid molecule selected from the group consisting of

- (a) a nucleic acid having more than 95% identity with SEQ ID NO:1;[,]
- (b) a nucleic acid which encodes the amino acid sequence depicted in SEQ ID NO:2:[,]
- (c) a nucleic acid molecule which has the sequence depicted in SEQ ID NO:1;[,]

and

(d) a nucleic acid molecule which encodes the amino acid sequence encoded by the insert in plasmid DSM 12425;

is cultivated under conditions allowing the expression of the <a href="mailto:enzyme">enzyme</a>[protein], and wherein the <a href="mailto:enzyme">enzyme</a>[protein] is isolated from the cultivated cells and/or the culture medium.

Claim 32 (currently amended) A host cell which is genetically modified with a vector containing a nucleic acid molecule selected from the group consisting of

- (a) a nucleic acid having more than 95% identity with SEQ ID NO:1;[,]
- (b) a nucleic acid which encodes the amino acid sequence depicted in SEQ ID NO:2:[,]

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(c) a nucleic acid molecule which has the sequence depicted in SEQ ID

NO:1;[,]

and

 $\underline{(\underline{d})}$  a nucleic acid molecule which encodes the amino acid sequence

encoded by the insert in plasmid DSM 12425;

wherein the host cell [which]is an E. coli cell.

Claim 34 (currently amended) A host cell [] which is genetically modified with a vector containing a nucleic acid molecule selected from the group consisting of

(a) a nucleic acid having more than 95% identity with SEQ ID NO:1;[,]

(b) a nucleic acid which encodes the amino acid sequence depicted in

SEQ ID NO:2;[,]

(c) a nucleic acid molecule which has the sequence depicted in SEQ ID

NO:1<u>;</u>[,]

and

(d) a nucleic acid molecule which encodes the amino acid sequence

encoded by the insert in plasmid DSM 12425;

wherein the host cell [which]is a fungal cell.

Authorization for this examiner's amendment was given in a telephone interview with Susan Gorman on 12/03/2009.

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Art Unit: 1638

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRENT PAGE whose telephone number is (571)272-5914. The examiner can normally be reached on Monday-Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571)-272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brent T Page

/Anne Marie Grunberg/

Supervisory Patent Examiner, Art Unit 1638